

0114Z 03 MAR 66

SECRET

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PRIORITY		

DIRECTOR

25X1A

FROM

ATTN:

INFO

TOR: 0203Z 03 MAR 66

OSA-1-20

IN-91341

25X1A

25X1A

IMMEDIATE

INFO

ONE

25X1A

IDEALIST LOGS MAINT

25X1A

25X1A

FROM

25X1A

REF A

3

25X1A

25X1A

25X1A

1. NO RESULTS IN TESTS, ITEM 4 REF [] UNAVAILABILITY OF [] HAS DELAYED PROGRAM. DO NOT FEEL THAT MEASURED FREQUENCY OF [] IS MEANINGFUL AFTER CRASH. THE UNIT IS SHOCK SENSITIVE AND WE FIND THAT IN SHIPPING THAT THE CONTACT WHEEL ON THE TUNING COILS BOUNCES OUT OF TRACK. WE WILL ATTEMPT TO EXPEDITE TEST.

25X1A

2. REF B INDICATES THAT THE OVERTEMP EXPERIENCED AT OL-20 WAS NOT ASSOCIATED WITH RETUNING OR ACTIVATING 518T-3. EXPECT TO TALK DIRECTLY TO [] TOMORROW, 3 MARCH 66.

3. STATUS OF EGT S/N 376A REMOVED FROM ART 706 IS AS FOLLOWS.

A. REASON FOR REJECTION STATES: "FLT NBR 1 - EGT WENT PLUS 998 DEGREES IN FLIGHT AFTER 1/2 HR AFTER T/O AND REMAINED AT 998 DEGREES REMANDER OF FLIGHT."

SECRET

GROUP 1
EXCLUDED FROM AUTO-
DECLASSIFICATION
AND DOWNGRADING

4

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[REDACTED] (IN-91341)

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B. UNIT INDICATES FROM 2 TO 4 DEGREES LOW AT ALL POINTS WHEN CONNECTED PROPERLY AND SUPPLIED 115V 400 CPS. THERE WAS NO TENDENCY TO INDICATE HIGH AT ANY CHECK POINT, NO STICKING, AND NEVER WENT TO 998 DEGREES.

C. WITH REDUCTION IN FREQUENCY OF INVERTER PRIMARY POWER FROM 400 CPS TO 354 CPS, THE INDICATION REMAINED AT 648 DEGREES. DECREASING INVERTER FREQUENCY FROM 354 TO 237 CPS RESULTED IN INDICATION CHANGE FROM 648 TO 714 DEGREES. MOST OF THE CHANGE IN INDICATION OCCURRED AS 237 CPS WAS APPROACHED.

A SECOND EGT INDICATOR WAS TESTED FOR COMPARISON WITH SIMILAR RESULTS, BUT THE S/N 376 UNIT WAS MORE AFFECTED BY THE DROP IN POWER FREQUENCY.

D. PUSH TO TEST SWITCH RUNS INDICATOR TO 998 DEGREES BUT RETURNS TO PROPER READOUT WHEN SWITCH IS RELEASED.

E. DISCONNECTING EITHER ONE OR BOTH THERMOCOUPLE LEADS RESULTS IN THE INDICATOR RUNNING SLOWLY TO ZERO AND REMAINING AT ZERO. PUSHING THE TEST SWITCH WITH T/C DISCONNECTED WILL CAUSE THE INDICATOR TO RUN AND STICK AT 998 DEGREES. THE INDICATOR STICKS AT 998 FOR SEVERAL MINUTES OR UNTIL INSTRUMENT IS TOPPED OR JARRED, AT WHICH TIME SLOWLY RUNS TO ZERO.

A SECOND INDICATOR WAS TESTED WITH T/C DISCONNECTED WITH SIMILAR RESULTS BUT THE LENGTH OF TIME IT STICKS AT 998 DEGREES IS UNPREDICTABLE. AT THIS TIME, WE FEEL THAT THIS IS NORMAL.

F. THE INDICATOR, S/N 376A, WILL BE RETURNED TO MANUFACTURER FOR CLOSE INSPECTION AND REPORT.

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[REDACTED] (IN-91341)

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4. THE MANUFACTURER OF THE UNIT HAS STATED THAT LOW FREQUENCY POWER HAS IN THE PAST CAUSED THE INDICATORS TO RUN TO 998 AND STAY THERE UNTIL PROPER FREQUENCY, 380-420 CPS, WAS APPLIED.

5. MANUFACTURER POINTS OUT THAT SOME OPERATORS HAVE REMOVED THE TEST SWITCH AND TWO TEST WIRES TO THE EGT INDICATOR BECAUSE IT IS UNNECESSARY AND TO ELIMINATE THE AFFECT OF RF TRANSMISSIONS. THIS ALSO REDUCES WEAR AND TEAR ON INDICATOR. WE ARE CONSIDERING ELIMINATION OF THE SELF TEST FEATURE. REQUEST YOUR COMMENTS.

END OF MESSAGE

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